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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/614,648	07/07/2003	John K. Fraser	MA9658DIV4	7640	
7590 03/24/2006			EXAM	EXAMINER	
Kenton R. Mullins			LANKFORD JR, LEON B		
Stout, Uxa, Buy	an & Mullins, LLP				
Suite 300			ART UNIT	PAPER NUMBER	
4 Venture			1651		
Irvine, CA 92618			DATE MAILED: 03/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/614,648	FRASER ET AL.
Office Action Summary	Examiner	Art Unit -
	Leon Lankford	1651
The MAILING DATE of this communica Period for Reply	tion appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAII  - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic.  - If NO period for reply is specified above, the maximum statute.  - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNION TO CFR 1.136(a). In no event, however, may a relation.  In period will apply and will expire SIX (6) MON by statute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status	•	
1) Responsive to communication(s) filed of	on 07 July 2003.	
,— .	☐ This action is non-final.	:
3) Since this application is in condition for		ers, prosecution as to the merits is
closed in accordance with the practice	· ·	•
Globba in accordance min are praeme	2 <b>2</b> 0. 2 <b>p</b> a 2 <b>.</b> ,	
Disposition of Claims		
4)⊠ Claim(s) <u>67-79</u> is/are pending in the ap	plication.	
4a) Of the above claim(s) is/are v	withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>67-79</u> is/are rejected.		
7) Claim(s) is/are objected to.		: 1
8) Claim(s) are subject to restriction	n and/or election requirement.	:
Application Papers		
9)☐ The specification is objected to by the E	xaminer	. :
10) The drawing(s) filed on is/are: a)		ov the Examiner.
Applicant may not request that any objectio		
Replacement drawing sheet(s) including the		<u>:</u>
11) The oath or declaration is objected to by	•	
	•	•
Priority under 35 U.S.C. § 119	•	
12) Acknowledgment is made of a claim for a) All b) Some * c) None of:	foreign priority under 35 U.S.C. §	119(a)-(d) or (f).
1. Certified copies of the priority do	cuments have been received.	
	cuments have been received in A	oplication No.
-	he priority documents have been	
application from the International	· · ·	
* See the attached detailed Office action for	• • • • • • • • • • • • • • • • • • • •	received.
	•	
	• .	
Attachment(s)		
1) Notice of References Cited (PTO-892)		ummary (PTO-413)
<ul> <li>2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO</li> </ul>		)/Mail Date formal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	—·

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 67-79 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The makeup of the composition claimed in claim 67 is unclear. If applicant is intending for the composition to be composed of two separate and distinct portions, the claims should reflect how this is accomplished. It should be noted that separately contained portions would not be considered part of the same composition.

As claim 67 would appear to be claiming separated portions, claim 68 which requires that the portions be mixed together would appear to not properly depend from 67 since the inventions appear to be the anuthesis of each other.

The term "stem cells' in this particular case is indefinite. There are several types of multipotent cells which may be associated with adipose tissue and thus the intending scope of applicant's claim is unclear. Applicant should more clearly define the cells in question.

Please note that the language of a claim must make it clear what subject matter the claim encompasses to adequately delineate its "metes and bounds". See, e.g., the

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following decisions: In re Hammack, 427 F 2d. 1378, 1382, 166 USPQ 204, 208 (CCPA 1970); In re Venezia 530 F 2d. 956, 958, 189 USPQ 149, 151 (CCPA 1976); In re Goffe, 526 F 2d. 1393, 1397, 188 USPQ 131, 135 (CCPA 1975); In re Watson, 517 F 2d. 465, 477, 186 USPQ 11, 20 (CCPA 1975); In re Knowlton 481 F 2d. 1357, 1366, 178 USPQ 486, 492 (CCPA 1973). The courts have also indicated that before claimed subject matter can properly be compared to the prior art, it is essential to know what the claims do in fact cover. See, e.g., the following decisions: In re Steele, 305 F 2d. 859, 134 USPQ 292 (CCPA 1962); In re Moore 439 F 2d. 1232, 169 USPQ 236 (CCPA 1969); In re Merat, 519 F 2d. 1390, 186 USPQ 471 (CCPA 1975).

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 67-79 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant claims generically "a stem cell" however the specification as originally filed does not provide an adequate written description to show possession of

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the entire scope of this invention. As stated above, stem cell could be considered to encompass many types of multipotent cells which can be associated with adipose tissue. Further, the claims are not species (i.e. human) specific being generically drawn to a composition of stem cells from any species of animal. The written description requirement for a claimed genus may be satisfied through sufficient description of a representative number of species by actual reduction to practice, reduction to drawings, or by disclosure of relevant, identifying characteristics, i.e., structure or other physical and/or chemical properties, by functional characteristics coupled with a known or disclosed correlation between function and structure, or by a combination of such identifying characteristics, sufficient to show the applicant was in possession of the claimed genus. Applicant has shown none of this. See Eli Lilly, 119 F.3d at 1568, 43 USPO2d at 1406.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under . 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 67-79 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katz et al(6777231) or Peterson et al(6200606).

Katz teaches compositions comprising adipose-derived stem cells in a complex mixture and substantially free of other cells and tissues. Peterson teaches compositions comprising adipose-derived stem cells in a complex mixture and substantially free of other cells and tissues. The references clearly teach how and why to purify the desired cells detailed the useful methods and means.

Applicant's claims are confusing as to what the composition actually contains so it is difficult to directly apply the prior art. Any difference in the claimed compositions and those taught by the prior art would be only a matter of the concentration of the cells and tissues contained therein. Generally, differences in concentration (or temperature) will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration (or temperature) is critical.

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"[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955) (Claimed process which was performed at a temperature between 40°C and 80°C and an acid concentration between 25% and 70% was held to be prima facie obvious over a reference process which differed from the claims only in that the reference process was performed at a temperature of 100°C and an acid concentration of 10%.); >see also Peterson, 315 F.3d at 1330, 65 USPQ2d at 1382 ("The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages.");< \*\* In re Hoeschele, 406 F.2d 1403, 160 USPQ 809 (CCPA 1969) (Claimed elastomeric polyurethanes which fell within the broad scope of the references were held to be unpatentable thereover because, among other reasons, there was no evidence of the criticality of the claimed ranges of molecular weight or molar proportions.). For more recent cases applying this principle, see Merck & Co. Inc. v. Biocraft Laboratories Inc., 874 F.2d 804, 10 USPQ2d 1843 (Fed. Cir.), cert. denied, 493 U.S. 975 (1989); In re Kulling, 897 F.2d 1147, 14 USPQ2d 1056 (Fed. Cir. 1990); and In re Geisler, 116 F.3d 1465, 43 USPQ2d 1362 (Fed. Cir. 1997).

Accordingly, the claimed invention was prima facie obvious to one of ordinary skill in the art at the time the invention was made especially in the absence of evidence to the contrary.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Lankford whose telephone number is 571-272-0917. The examiner can normally be reached on Mon-Thu 7:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leon B Lankford Jr Primary Examine

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